

DaimlerChrysler AG

Patent claims

5 1. A device (1) for producing an essentially T-shaped hollow profile (8) or a hollow profile (8) provided with at least one branch (9),
- the device (1) having a multipart mold (2) which is intended for internal high pressure forming and with
10 which a hollow profile (8) having at least one initially dome-like branch (9) can be produced, and
- the device (1) also having a tool (10) at the branch (9), this tool (10) being designed for opening the branch (9) at the end face after the forming operation,
15 characterized in that the tool (10) is designed as a cutting device having a parting slide (11) displaceable essentially transversely to the axis (6) of the branch (9).

20 2. The device as claimed in claim 1, characterized in that the parting slide (11) is arranged inside a gap space (12) which is present in the mold (2) and through which a cavity of the mold (2) passes transversely to the gap plane, this cavity being provided for shaping the
25 branch (9).

3. The device as claimed in claim 1 or 2, characterized
- in that the parting slide (11) has an opening (14) which is orthogonal relative to the slide plane and
30 through which the cavity provided for shaping the branch (9) passes before the start of the parting operation, and
- in that a marginal region of the opening (14) forms a cutting edge (15).

4. The device as claimed in claim 3, characterized in that the opening (14) has a cross section which is identical, at least in a certain region, to the cross 5 section of the cavity provided for the shaping of the branch (9).

5. The device as claimed in one of claims 1 to 4, characterized in that the parting plane is arranged at an 10 end face region of the dome-like branch (9).

6. The device as claimed in one of claims 1 to 4, characterized in that the parting plane is arranged in a region between the end face region and a region at which 15 the dome-like branch (9) opens into the hollow profile (8).

7. The device as claimed in one of claims 3 to 6, characterized in that the cutting edge (15) is designed 20 to be interchangeable.

8. The device as claimed in one of claims 3 to 6, characterized in that the cutting edge (15) forms an integral part of the parting slide (11).

25 9. The device as claimed in one of claims 1 to 8, characterized in that a drivable counter holder (17) is provided which supports the dome-like branch (9) at least during the forming process.

30 10. The device as claimed in claim 9, characterized in that the counter holder (17) is designed in such a way that it can be moved through the opening (14) of the parting slide (11).